

AMENDMENTS TO THE CLAIMS

The listing of claims below will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Original) An underwater discharge core comprises:
 a frame having a rectangle opening,
 a first platinum plate mesh made of conductive material for mounting to said frame,
 an insulation plate meshes disposed over said first platinum plate meshes,
 a second platinum plate mesh made of conductive material overlapped said insulation plate meshes and first platinum plate meshes.
2. (Original) An underwater discharge core as claimed in claim 1, wherein said first platinum plate mesh and second platinum plate mesh mounted on the frame are arranged to misalign square meshes.
3. (Original) An underwater discharge core as claimed in claim 2, wherein said first platinum plate mesh and second platinum plate mesh have a plurality of uniform minute square meshes, and the projected square meshes of said first and second platinum plate meshes have clearance one-half of said square meshes.
4. (Original) An underwater discharge core as claimed in claim 1, wherein said insulation plate meshes is disposed between said first platinum plate mesh and second platinum plate mesh.

5. (Original) An underwater discharge core as claimed in claim 1, further comprises that at least one side of said frame has a plurality of protrusions for mounting said first platinum plate mesh, insulation plate and second platinum plate mesh.

6. (Original) An underwater discharge core as claimed in claim 1, further comprises that at least one pair of retainer and retainer clip is installed to fix said first platinum plate mesh, insulation plate and second platinum plate on the frame.

7. Cancelled

8. Cancelled

9. Cancelled

10. Cancelled

11. Cancelled

12. Cancelled

13. (Currently Amended) An underwater discharge core as claimed ~~[one of]~~ in claim 1 ~~[to claim 12]~~, wherein said first platinum plate mesh and second platinum plate mesh are made of the platinum group, solid Iridium, solid platinum plated Iridium or plated platinum.

14. Cancelled

15. (Original) A sterilized water generator comprises:
 a container filled with water,
 an underwater discharging core consisted of a rectangular-shape frame, a first and second platinum plate meshes made of conductive material, an insulation plate made of non-conductive material installed on the frame,
 said container installed at least one underwater discharging

core, and

a power supply unit and control system for supplying power to
say first and second platinum plate mesh cells to perform underwater
discharge.

16. (Original) A sterilized water generator as claimed in claim 15,
wherein said container is used as a water storage tank.

17. (Original) A sterilized water generator as claimed in claim 15,
wherein said container is a water flow pipeline.

18. (Original) A sterilized water generator as claimed in claim 15,
further comprises:

a thermal sensor installed inside of the container for sensing
operating water temperature, and

a control system to cut off the power to the underwater
discharging core for preventing overheating the system based on the sensed
operating water temperature.

19. (Currently Amended) A sterilized water generator as claimed
~~[one of]~~ in claim 15 ~~[to claim 18]~~, wherein said first platinum plate mesh and
second platinum plate mesh are made of the platinum group, solid Iridium,
solid platinum plated Iridium or plated platinum.

20. Cancelled

21. Cancelled

22. (Original) A sterilized water supplying system comprises:
a sterilized water generator consisted of at least one underwater
discharge core equipped with an alternative power supply and control
system for alternatively supplying power to a set of positive and negative

terminals of platinum plate meshes,
a water storage tank for storing the produced sterilized water,
a filtration unit for filtering the foreign objects from the supplied
water, and
a power source/controlling unit for controlling the sterilized
water generator.

23. (Original) A sterilized water supplying system as claimed in
claim 22, further comprises a water pump disposed between the filtration
unit and the sterilized water generator.

24. (Original) A sterilized water supplying system as claimed in
claim 23, further comprises a first valve for controlling the water supply to
the system by the power source/controlling unit, a second valve disposed
between the sterilized water generator and the water storage tank to allow
water flow one direction.

25. (Original) A sterilized water supplying system as claimed in
claim 23, further comprises a thermal sensor installed inside the sterilized
water generator for sensing the operating water temperature to prevent
overheating the system.

26. (Original) A sterilized water supplying system as claimed in
claim 23, further comprises a third valve controlled by the controlling unit
for supplying the water to system, and a sensor installed inside of the water
storage tank for sensing the water level.

- 27. Cancelled
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- 41. Cancelled

42. (Original) An underwater discharge core comprises:
 a frame having a rectangular opening,
 a first platinum plated mesh with X-axis or horizontal strip bars
and strip liners made of plated conductive material for mounting on said
frame to allow water flow, and
 a second platinum plated mesh with Y-axis or vertical strip bars
and strip liners made of plated conductive material for mounting opposite to
said first platinum plated meshes on said frame and allowing water flow.

43. (Original) An underwater discharge core as claimed in claim
42, wherein said first platinum plated mesh and second platinum plated
mesh are made of the plated platinum group, plated Iridium or plated
platinum.

44. (Original) An underwater discharge core as claimed in claim
42, further comprises that at least one pair of retainer and retainer clip is
installed to fix said first platinum plated mesh and second platinum plated
on the frame.